

DERWENT-ACC-NO: 1999-264463

DERWENT-WEEK: 200274

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TITLE: Granulated gelatinised silica-alumina product and its  
production process - comprises serial ageing, acidifying,  
water washing, surface activation, drying etc

INVENTOR: HU, X; LI, J ; ZHANG, C

PRIORITY-DATA: 1997CN-0105983 (July 21, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
CN 1206020 A	January 27, 1999	N/A	001 C08G
077/58			

INT-CL (IPC): B01D053/28, B01J002/04 , C08G077/58

ABSTRACTED-PUB-NO: CN 1206020A

BASIC-ABSTRACT:

Sodium silicate solution and acidified aluminium salt of inorganic acid solution is produced into gel grains, which is further produced into spherical granulated alumino silica gel through serial aging, acidifying, water washing, surface activation, drying, etc. The granulated gel contains SiO<sub>2</sub> 89.5-98.5% and Al<sub>2</sub>O<sub>3</sub> 0.5-9%, has an average grain size of 0.5-8 mm, an average specific surface area 450-880 m<sup>2</sup>/g, an average pore volume 0.3-0.6 ml/g, an average pore size 0.0015-0.0035 micron, and an adsorptivity of 5-15% at 20% RH and 30-50% at 80% RH.

CHOSEN-DRAWING: Dwg.0/0



DERWENT-ACC-NO: 2002-675913

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TITLE: Producing silico-aluminum gelatinized granule product

INVENTOR: HU, X; LI, J ; ZHANG, C

PRIORITY-DATA: 1997CN-0105983 (July 21, 1997) , 2001CN-0121768 (July 21, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
CN 1358667 A	July 17, 2002	N/A	000 C01B 033/26

INT-CL (IPC): B01J002/04, C01B033/26

ABSTRACTED-PUB-NO: CN 1358667A

BASIC-ABSTRACT:

NOVELTY - In mixed rotary prilling granulator, sodium silicate solution and acidified inorganic acid aluminum solution are reacted stepwise, and passed through the nozzle of the prilling granulator and ejected into the air, condensed and formed to obtain silica-alumina gel particles.

DETAILED DESCRIPTION - In mixed rotary prilling granulator, sodium silicate solution and acidified inorganic acid aluminum solution are reacted stepwise, and passed through the nozzle of the prilling granulator and ejected into the air, condensed and formed to obtain silica-alumina gel particles. It is then aged, acidified, washed with water, surface treated and dried to obtain spherical granular silica-alumina gel particles with good sphericity.

USE - Especially applicable to desulfurizing and dewatering of gas and natural gas.

ADVANTAGE - The product has high skeletal strength, good wear resistance,  
and  
strong adsorption capacity for thiohydroxyl group,.

CHOSEN-DRAWING: Dwg.0/0